

Release Notes

hp StorageWorks Business Copy EVA/MA/EMA Host Agent v2.2 for hp Tru64 UNIX

Product Version: 2.2

Fourth Edition (October 2003)

Part Number: T3032-98102



The HP StorageWorks "Business Copy (BC) for enterprise virtual array (EVA), modular array (MA), and enterprise modular array (EMA)" is the new name for the "Enterprise Volume Manager (EVM)" software.

This document summarizes features and characteristics of the HP StorageWorks Business Copy Host Agent v2.2 for HP Tru64 UNIX release that are not covered elsewhere in the documentation set.



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About this Document

This section describes the content reflected in this document, including:

- [Release Notes Information](#), page 3
- [Intended Audience](#), page 3
- [Business Copy Documentation](#), page 3
- [Business Copy Product Updates](#), page 3

Release Notes Information

These Release Notes cover the following BC topics:

- [Hardware and Software Requirements](#), page 4
- [Limitations and Known Issues](#), page 6

Intended Audience

This document is intended for customers who purchased BC v2.2 or are now updating these environments to BC v2.2, and for HP authorized service providers responsible for installing, configuring, and maintaining systems that include BC software.

Business Copy Documentation

BC documentation includes documents distributed through an initial purchase of BC v2.2 (contained in a BC documentation kit) and through a Web release of BC updates. Refer to the *HP StorageWorks Business Copy EVA/MA/EMA v2.2 Read Me First* (T3032-99101) or *HP StorageWorks Business Copy EVA/MA/EMA v2.2 Update Read Me First* (AA-RQ70G-TE) for a list of these documents and document part numbers.

Visit the BC product page website (<http://h18000.www1.hp.com/products/storage/software/bizcopyeva/index.html>) for all available BC documentation (except the BC online Help & User Guide).

Business Copy Product Updates

BC product updates, if available, are located at the BC software and drivers page website:

<http://h18000.www1.hp.com/products/storage/software/bizcopyeva/index.html>.

Hardware and Software Requirements

The following sections identify hardware and software requirement changes for this BC host agent. Topics include:

- [Operating System Version Support](#), page 4
- [Cluster Support](#), page 4
- Filesystem and Volume Manager Support
- [HBA, Firmware, and Driver Requirements](#), page 5

Operating System Version Support

The BC v2.2 Solaris Host Agent supports the following Tru64 version:

Tru64 v5.1B, with Patch Kit 1



Cluster Support

The BC v2.2 Tru64 host agent is supported in TruCluster environments. The following conditions apply to this support:

- The host agent is not cluster aware. If the cluster node running the host agent fails during the execution of a job, that job will fail. Undoing and re-executing the job should allow it to complete.
- A BCV presented by BC is visible to all nodes in the cluster as long as one of the first two nodes (listed as active at the time the job was run) remains active.

Filesystem and Volume Manager Support

AdvFS Configurations

The BC host agent supports the Tru64 Advanced Filesystem (AdvFS). The following limitations apply to this support:

- Only 1 LSM disk group per AdvFS domain. Domains that span multiple LSM diskgroups are not supported.
- Maximum of 8 LSM volumes per AdvFS.
- Maximum of 128 filesets per AdvFS domain.
- No combination of LSM volumes and non-LSM disks in an AdvFS domain.

- Advfs is supported on LSM or UFS volumes, not both. LSM and UFS volumes cannot be mixed in a single AdvFS domain.
- No more than 128 filesets per Tru64 host. This can be 1 domain with 128 filesets or 32 domains with four filesets each.

LSM Configurations

The BC host agent supports the Tru64 Logical Storage Manager (LSM). The following limitations apply to this support:

- RAID0 (stripe) is the only supported LSM configuration. RAID1 (mirror) and RAID5 (parity) are not supported.
- Maximum of 8 LUNs per LSM disk group.
- LSM disk groups can contain only whole physical disks, no partitions.
- All of the volumes in an LSM diskgroup must be located on either HSG or HSV storage. Diskgroups that contain a mixture of HSG and HSV storage are not supported.
- An LSM diskgroup can contain volumes from up to four HSG80 subsystems or up to two HSV subsystems.
- Only AdvFS on LSM volumes (no raw file systems or UFS).

HBA, Firmware, and Driver Requirements

HBA, firmware, and driver requirements are listed in [Table 1](#).

Table 1: HBA, Firmware, and Driver Requirements

Vendor	HBA model	Firmware	Driver
Emulex	LP8000 / KGPSA	3.82a1	2.06
	LP9002 / FCA2354	3.82a1	2.06
	LP9802 / FCA2384	1.00x6	2.06

Limitations and Known Issues

This section is an extension of a similar section in the *HP StorageWorks Business Copy EVA/MA/EMA v2.2 Network Administration Guide* (T3032-96101) and can help avoid problems while using BC v2.2. Limitations and known issues include the following topics:

- [Job Failure Due to Slow Response From HP Tru64 UNIX](#), page 6
- [Don't Run More than One Job at the Same Time that Tries to Replicate the Same Domain](#), page 7
- [UNIX OSs with Netscape Browsers and JRE 1.4.0x](#), page 7
- [BC Job Failed at Mount Operation](#), page 7
- [Postinstallation Best-Practices](#), page 8

Job Failure Due to Slow Response From HP Tru64 UNIX

Description: This issue applies to BC jobs with large configurations (for example, an AdvFS domain with 64 filesets spread over eight LUNs). The scan disk command (`hwmgr -scan scsi`) for HP Tru64 UNIX may take more time than the value specified in `PIPE_READ_TIMEOUT`. This time limitation can cause the BC job to fail.

Similarly, during a mount operation, methods in the HP Tru64 UNIX STOCFG library and the `voldg flush` command can take a long time to return, causing the BC job to fail.

Error Indication: `PIPE READ TIMEOUT/OSVM Hanging/Mount Operation Time Out` error message.

Resolution/Workaround: Use the following steps:

1. Undo the job.
2. Remove the mount points on the host where the volume is mounted.
3. If possible, reboot the host on which the mount operation was performed.
4. Rerun the job.

Don't Run More than One Job at the Same Time that Tries to Replicate the Same Domain

Part of the process of replicating an AdvFS domain involves placing the volume group that is being copied into a consistent state. Business Copy does this through the use of a utility called VGfreeze. If multiple VGfreeze processes are executed against the same volume group at the same time, they will conflict and one or more of them will fail, causing the BC job to fail.

UNIX OSs with Netscape Browsers and JRE 1.4.0x

Description: Sporadically, UNIX® OSs with Netscape browsers and JRE versions 1.4.0x may experience a problem entering data in specific fields of the Job Create page. This intermittent problem is referenced as a known bug in the Sun Microsystems Bug Database (# 4767070).

Error Indication: Inability to insert text in the **Name**, **Owner**, and **Category** fields of the Job Create page.

Resolution/Workaround: A fix is in JRE 1.4.1_02. A workaround for prior JRE versions involves using the mouse to change *focus* away from the current application to another window, and then returning to the current application.

In BC, for example, the user can click *focus* away from the applet area in BC by:

1. Clicking in the upper header area of the BC GUI, and then
2. Clicking back within the applet area to regain *focus* on the text fields.

BC Job Failed at Mount Operation

Description: When a BC job fails at the mount operation; sometimes undoing the job will not remove the BCVs from the host as it should. If the host is not cleaned before running the job again, the job will fail again.

Error Indication: Job failed at the mount operation.

Resolution/Workaround: Manually clean up the host using the following steps:

1. Unmount the mounted BCV's at the host.
2. Remove/delete the presented BCV's at the host.

Postinstallation Best-Practices

All open browser windows must be closed and then the browser reopened before browsing to the SMA software, after any of the following installations.

- BC host agent v2.2
- Any browser or new browser version
- A JRE or a new JRE version

If problems between the browser and Java applets (such as the lack of a display in the lower portion of the BC screen) persist after closing and reopening the browser, the browser cache or Java plug-in cache may be responsible.

To clear the cache in Internet Explorer, use the following procedures:

1. Choose **Tools>Internet Options**.
2. From the **General** tab, under **Temporary Internet Files**, click **Delete Files**.
3. In the **Delete Files** window, click **OK**. (There is no need to check the **Delete all offline content** option.)

To clear the cache in Netscape, use the following procedures:

1. Choose **Edit>Preferences**.
2. In the navigation pane, choose **Advanced>Cache**.
3. Click both **Clear Memory Cache** and **Clear Disk Cache**.
4. Click **OK**.

To clear the cache in the Java plug-in, use the following procedures:

1. Open the Java plug-in console.
2. From the **Cache** tab, click **Clear JARCache**.
3. Close the Java plug-in console.